

Version with Markings to Show Changes Made

In The Claims

Claims 1 and 9 have been amended as follows:

1. (Twice Amended) A motor provided in a turbo-molecular pump, comprising:
a rotary shaft; and
a bearing for radially supporting the rotary shaft, wherein the bearing includes:
 a cylindrical rotary member connected to the rotary shaft;
 a cylindrical fixed surface surrounding the rotary member, wherein the fixed surface is spaced from the rotary member by a predetermined distance, and wherein the materials of the rotary member and the fixed surface are selected so that the material of the rotary member has a coefficient of thermal expansion that is smaller than that of the material of the fixed surface; and
 armature coils arranged about a peripheral surface of the fixed surface to rotate the rotary shaft.

9. (Three Times Amended) A motor provided in a turbo-molecular pump, comprising:
a rotary shaft; and
a bearing for radially supporting the rotary shaft, wherein the bearing includes:
 a cylindrical rotary member connected to the rotary shaft;
 a cylindrical fixed surface surrounding the rotary member, wherein the fixed surface is spaced from the rotary member by a predetermined distance, and wherein the rotary member is made of a material having a coefficient of thermal expansion that is $5 \times 10^{-6}/^{\circ}\text{C}$ or less; and
 armature coils arranged about a peripheral surface of the fixed surface to rotate the rotary shaft.